

SPECIFICATIONS:

ENGINE:

1. SIX CYLINDER, TURBOCHARGED, ISOLATION MOUNTED DIESEL ENGINE AND SHALL BE DESIGNED AND BUILT BY THE MANUFACTURER
2. ENGINE DISPLACEMENT SHALL BE NO LESS THAN 6.8 LITERS (414 CUBIC INCHES)
3. ENGINE RATED NET PEAK POWER SHALL BE NO LESS THAN 126 HP @2000 RPM AND SHALL DEVELOP AT LEAST A 38% TORQUE RISE WITH AT LEAST 404 LB FT NET TORQUE AT 1300 RPM.
4. ENGINE SHALL HAVE A INDIVIDUALLY REPLACEABLE, WET-SLEEVE CYLINDER LINER DESIGN
5. THE BACKHOE SHALL HAVE A TILT HOOD FOR EASY ENGINE ACCESS AND DAILY CHECK POINTS SHALL BE ACCESSIBLE FROM THE RIGHT SIDE OF ENGINE AND SHALL BE DONE FROM GROUND LEVEL.
6. ENGINE SHALL HAVE A SERPENTINE BELT WITH AUTOMATIC BELT TENSIONER
7. ENGINE SHALL HAVE UNDER-HOOD ENGINE AIR CLEANER DRY TYPE, DUAL ELEMENT WITH EVACUATOR VALVE, RESTRICTION SENSOR, AND IN-CAB RESTRICTION WARNING LIGHT.
8. THE BACKHOE SHALL HAVE AN UNDER HOOD MUFFLER WITH CURVED-END CHROME EXHAUST STACK
9. ENGINE SHALL HAVE NO MORE THAN 3-MICRON RATED PRIMARY FUEL FILTER WITH WATER SEPARATOR
10. ENGINE SHALL BE CERTIFIED TO EPA TIER 3 EMISSIONS
11. ENGINE COOLANT SHALL BE RATED TO -34 DEGREES AND SHALL HAVE A COOLANT RECOVERY TANK
12. ENGINE SHALL HAVE A SUCTION-TYPE FAN WITH FAN-GUARD
13. THE BACKHOE SHALL BE EQUIPPED WITH AN OIL-TO-WATER ENGINE OIL COOLER, HYDRAULIC AND TRANSMISSION CIRCUITS WILL BE WATER COOLED FOR FAST WINTER WARM-UP

Specifications

14. The AC CONDENSER WILL BE SWING-OUT FOR FAST RADIATOR CLEAN-OUT WITH REMOTE MOUNTED TRANSMISSION AND HYDRAULIC COOLERS FOR BETTER AIR EXCHANGE AND FEWER STACKED CORES

POWER TRAIN

1. THE TRANSMISSION SHALL BE POWER SHIFT WITH TORQUE CONVERTER, CLUTCH-FREE, FULLY SYNCHRONIZED FOUR FORWARD, THREE REVERSE SPEEDS AND TRANSMISSION OIL COOLER.
2. THE TRANSMISSION SHALL BE ISOLATION MOUNTED TO THE MAINFRAME
3. THE SINGLE ELECTRIC F-N-R LEVER WILL HAVE GEAR SELECTION FULLY INTEGRATED IN THE LEVER
4. THE AXLE WILL BE MECHANICAL FRONT-WHEEL-DRIVE WITH TRACTION CONTROL LIMITED-SLIP DIFFERENTIAL WITH ELECTRIC ON/OFF CONTROL. MFWD CAN BE ENGAGED ON THE FLY DURING OPERATION
5. THE FRONT AXLE WILL BE SEALED TO PROTECT AGAINST CONTAMINATION, DRIVESHAFT WILL BE PAINTED AND WILL HAVE A FACTORY INSTALLED FULL GUARD
6. THE FRONT AXLE PIVOT PIN SHALL HAVE REMOTE GREASE BANK FOR FRONT AXLE EASY ACCESS
7. THE REAR AXLE SHALL BE 100% HYDRAULICALLY LOCKING, DIFFERENTIAL LOCK, ELECTRIC FOOT-ACTUATED, PLANETARY FINAL DRIVES
8. THE REAR AXLE BEARINGS SHALL BE SELF-LUBRICATING AND SHALL NOT NEED TO BE GREASED
9. THE BACKHOE SHALL HAVE HYDROSTATIC POWER STEERING WITH EMERGENCY MANUAL MODE
10. THE SERVICE BRAKES SHALL IN INBOARD WET-MULTIPLE DISK, SELF-ADJUSTING AND SELF EQUALIZING AND HYDRAULICALLY ACTUATED, SEALED FROM WATER, MUD AND DUST CONTAMINATION PARKING/EMERGENCY BRAKE WITH ELECTRIC SWITCH CONTROL, SPRING APPLIED, HYDRAULICALLY RELEASE WET MULTI-DISC, INDEPENDENT OF SERVICE BRAKES
11. THE MACHINE WILL HAVE A DIAL THROTTLE THAT WILL ALLOW THE OPERATOR TO ROAD THE MACHINE ON CRUISE CONTROL, WITH A TAP ON THE BRAKE PEDAL, THE ENGINE RPM'S RETURN TO IDLE.

HYDRAULIC SYSTEM

1. HYDRAULIC PUMP SHALL BE 52 GPM AT 2,200 RPM AT 3,625 PSI AXIAL PISTON PUMP, PRESSURE COMPENSATING, LOAD SENSING
2. HYDRAULIC COOLER WILL HAVE AN INDEPENDENT RESERVOIR FOR CONTINUOUS RUNNING OF ATTACHMENTS
3. THE HYDRAULIC FITTINGS SHALL HAVE "O-RING" FACE SEAL CONNECTORS
4. THE HYDRAULIC FILTER SHALL BE NO MORE THAN 6 MICRON AND WILL BE VERTICALLY MOUNTED, SPIN ON DESIGN

ELECTRICAL

1. THE BACKHOE SHALL HAVE A 12 VOLT SYSTEM WITH 90 AMP ALTERNATOR, TWO BATTERIES INCLUDED WITH 1900 CCA AND 380 MIN. RATED RESERVE
2. THE MACHINE SHALL HAVE BLADE TYPE, MULTI-FUSED CIRCUITS WITH ELECTRICAL MASTER DISCONNECT SWITCH
3. THE BACKHOE SHALL BE EQUIPPED WITH 10 HALOGEN DRIVING/WORKING LIGHTS 4 FRONT, 4 REAR, 2 SIDE DOCKING LIGHTS; LIGHTS SHALL BE ADJUSTABLE AND THE BULBS SHALL BE NO LESS THAN 32, 500 CANDLEPOWER. EACH UNIT SHALL BE EQUIPPED WITH TWO FRONT AND TWO REAR TURN SIGNAL/FLASHING AND TWO REAR STOP AND TAILLIGHTS AND TWO REFLECTORS.

OPERATOR STATION

1. ACCESS TO THE CAB SHALL BE FROM THE RIGHT AND LEFT SIDE WITH PROTECTED, WIDE, RIGID, SELF-CLEANING STEPS AND HAND-HOLDS
2. THE KEY START SWITCH WILL HAVE AN ELECTRIC FUEL SHUT-OFF
3. THE MONITOR SYSTEM SHALL HAVE AUDIBLE AND VISUAL WARNINGS: ENGINE AIR RESTRICTION LOW ALTERNATOR VOLTAGE, ENGINE OIL TEMPERATURE AND PRESSURE, HYDRAULIC FILTER RESTRICTION, PARKING BRAKE ON/OFF, SEAT BELT, AND LOW BRAKE PRESSURE
4. UNIT SHALL BE EQUIPPED WITH ILLUMINATED ELECTRONIC GAUGES WITH AUDIBLE WARNING FOR ENGINE COOLANT TEMPERATURE, OIL TEMPERATURE AND FUEL LEVEL
5. UNIT SHALL HAVE DIGITAL DISPLAY FOR ENGINE RPM, ENGINE HOURS, AND SYSTEM VOLTAGE
6. AN ANTI-THEFT ELECTRONIC PROTECTION SYSTEM PROVIDED THROUGH THE MONITOR SHALL BE A FACTORY OPTION
7. THE FOOT THROTTLE SHALL BE SUSPENDED
8. A MINIMUM 3" RETRACTABLE SEAT BELT SHALL BE PROVIDED
9. COAT HOOK, BUILT, IN BEVERAGE HOLDER, OPERATOR MANUAL STORAGE COMPARTMENT, INTERIOR REARVIEW MIRROR, TWO 12 VOLT OUTLETS, HEADLINER, MOLDED FLOOR MATS, TILT STEERING, HORN SHALL BE PROVIDED

Specifications

10. SEAT SHALL BE MECHANICAL SUSPENSION DELUXE FABRIC SWIVEL SEAT WITH LUMBAR ADJUSTMENT AND ARMREST; FULLY ADJUSTABLE
11. THE MACHINE WILL HAVE AN OPTIONAL CAB AND AIR CONDITIONER 26,000 BTU CFC-FREE R134A REFRIGERANT WITH HEATER; 40,000 BTU, DOME LIGHT, TINTED SAFETY GLASS, WINDSHIELD WIPER FRONT AND REAR, FRONT WINDSHIELD WASHER AND AM/FM/WB/CD RADIO AND CLOCK, SUN VISOR, ALL TO BE INCLUDED FROM THE FACTORY

TIRES

1. THE BACKHOE SHALL COME EQUIPPED WITH 21L-28 R4 14 PLY TUBELESS REAR TIRES AND 15-19.5 NHS-SS - 18 PLY TRACTION FRONT SURE GRIP LUG TIRES

GENERAL SPECIFICATIONS

1. WHEELBASE SHOULD BE NO LESS THAN 9'8"
2. VANDAL PROTECTION SHALL BE PROVIDED. ENGINE HOOD, TOOLBOX, HYDRAULIC RESERVOIR, FUEL FILLER SHALL BE LOCKABLE
3. FUEL TANK CAPACITY SHALL BE NO LESS THAN 69 GALLONS
4. THE MAINFRAME SHALL BE A ONE-PIECE UNITIZED CONSTRUCTION
5. UNIT SHALL HAVE FOUR BUILT-IN VEHICLE TIE-DOWNS, TWO IN FRONT AND TWO IN REAR
6. THE SIDE PLATE THICKNESS ON THE LOADER BOOM, BACKHOE BOOM AND MAINFRAME SHALL BE 4.5 MIL OR GREATER
7. MACHINE SHALL BE EQUIPPED WITH AN EXTERIOR MOUNTED, GROUND LEVEL ACCESSED AND LOCK-ABLE STORAGE COMPARTMENT, SLOW MOTION VEHICLE EMBLEM TO BE MOUNTED ON REAR, 5 LB. FIRE EXTINGUISHER TO BE MOUNTED IN OPERATORS STATION

LOADER

1. THE LOADER SHALL HAVE HYDRAULIC SELF-LEVELING AND BUCKET-LEVEL INDICATOR AND RETURN-TO-DIG
2. THE LOADER SHALL HAVE DIVERGENT LOADER ARMS; THE LOADER ARMS WILL HAVE A HIGH-KNEE DESIGN AND MINIMIZE HINGE PIN HEIGHT OF 12'5"
3. THE LOADER CONTROL WILL BE SINGLE-LEVER WITH ELECTRIC CLUTCH CUT-OFF SWITCH
4. THE LOADER SHALL HAVE A NON-REMOVABLE, HINGED LOADER BOOM SERVICE LOCK
5. BUCKET 1.375 CU. YD. MULTI-PURPOSE, LIFT CAPACITY AT FULL HEIGHT SHALL BE AT LEAST 8732 LBS
6. DUMP CLEARANCE WITH BUCKET AT 45 DEGREES; SHALL BE NO LESS THAN 9' 8"
7. BUCKET BREAKOUT FORCE SHALL BE NO LESS THAN 15,690 LBS
8. LOADER TO BE EQUIPPED WITH RIDE CONTROL OPTION
9. 1.375 CU. YD. MULTI-PURPOSE BUCKET TO HAVE BOLT-ON REVERSIBLE CUTTING EDGE

BACKHOE

1. THE BACKHOE WITH EXTENDABLE DIPPERSTICK DIGGING DEPTH SHALL BE AT LEAST 17' 10" RETRACTED AND 22' 4" EXTENDED
2. THE BACKHOE BOOM DESIGN SHALL BE A POWER CURVE
3. THE LIFT CAPACITY WITH EXTENDABLE DIPPERSTICK AT GROUND LEVEL SHALL BE NO LESS THAN 3,037 LBS AT FULL HEIGHT, NO LESS THAN 3,814 LBS RETRACTED
4. DIGGING FORCE WITH STANDARD BACKHOE BUCKET CYLINDER SHALL BE AT LEAST 17,000 LBS
5. THE SWING CASTING SHALL HAVE DUAL YOKES ON TOP AND ON THE BOTTOM
6. THE BACKHOE SHALL BE EQUIPPED WITH A RUBBER BUMPER-LINKAGE STYLE BOOM LOCKS AND SWING LOCK PIN SHALL BE STORED IN THE OPERATOR'S STATION
7. BACKHOE TO BE EQUIPPED WITH TWO LEVER PILOT CONTROLS WITH PATTERN-SELECTION FEATURE
8. THE STABILIZER VALVE WILL BE TWO DIRECTIONAL, ANTI-DRIFT AND SHALL HAVE REVERSIBLE PADS ON STABILIZER
9. BACKHOE SHALL HAVE 1,630 LBS COUNTERWEIGHT OPTION FOR EXTENDABLE DIPPERSTICK
10. MACHINE WILL HAVE 36" HEAVY DUTY BACKHOE BUCKET 18.8 CU. FT. CAPACITY WITH TEETH AND LIFT LOOPS

MANUALS AND KEYS

1. MACHINE TO INCLUDE ONE SET OF OPERATOR, PARTS AND SERVICE MANUALS
2. TO INCLUDE THREE SETS OF KEYS

WARRANTY-EXTENDED WARRANTY

1. STANDARD MANUFACTURERS COVERAGE AND 5 YEAR/3,000 HOUR FULL MACHINE COVERAGE